PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION			
International application No. PCT/KR2003/000109	International filing date(day/s		Priority date (day/mor	ıth/year)
nternational Patent Classification (IPC	<u> </u>		<u> </u>	
IPC7 C08G 18/00			;	
Applicant				
LG ELECTRONICS INC. et	al	· .		
 This international preliminary e and is transmitted to the applica This REPORT consists of a tota 	nt according to Article 36.	epared by this Int		xamining Authority
This report is also accom amended and are the basis	panied by ANNEXES, i.e., she for this report and/or sheets of the Administrative Instructions	ets of the descript	on, claims and/or drawir	ngs which have been Authority (see Rule
This report contains indications	· · · · · · · · · · · · · · · · · · ·			
IV Lack of unity of in V Reasoned statement citations and explain document VII Certain defects in	it of opinion with regard to nover nvention ent under Article 35(2) with reganations supporting such staten	gard to novelty, invited	•	•
Date of submission of the demand	1.1	Date of completion	of this report	
11 AUGUST 2004			005 (03.05.2005)	
Name and mailing address of the IPE Korean Intellectual Prop 920 Dunsan-dong, Seo-g Republic of Korea	erty Office gu, Daejeon 302-701,	Authorized officer		
Facsimile No. 82-42-472-7140	į ·	Telephone No. 82	2-42-481-5539	

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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International aplication No.

PCT/KR2003/000109

 $\left(\frac{1}{2} \right)^{2}$.

I.	Basis	s of the report				
1.	With	regard to the elements of the international application:*				
	\boxtimes	the international application as originally filed				
		the description:				
		pages	, as originally filed , filed with the demand			
		pages, filed with the letter of	 			
		the claims:				
		pages, as amended (together with any	, as originally filed statment) under Article 19			
		pages	, filed with the demand			
	_	pages, filed with the letter of				
	Ш	the drawings: pages	, as originally filed			
		pages	C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	_	pages, filed with the letter of				
	Ш	the sequence listing part of the description: pages	, as originally filed			
		pages	, filed with the demand			
٠.		pages, filed with the letter of				
2.	the i	regard to the language, all the elements marked above were available or furnished to this Authority in the language in which iternational application was filed, unless otherwise indicated under this item. e elements were available or furnished to this Authority in the following language				
. 3.		th regard to any nucleotide and/or amino acid sequence disclosed in the international application liminary examination was carried out on the basis of the sequence listing:	cation, the international			
•		contained inthe international application in written form.				
		filed together with the international application in computer readable form.				
		furnished subsequently to this Authority in written form.	•			
		furnished subsequently to this Authority in computer readable form				
		The statement that the subsequently furnished written sequence listing does not go bey international applicationas as filed has been furnished.	ond the disc losure in the			
	. 🔲	The statement that the information recorded in computer readable form is identical to the w been furnished.	ritten sequence listing has			
4.		The amendments have resulted in the cancellation of:				
		the description, pages	•			
		the claims, Nos.				
		the drawings, sheets				
5.		This report has been established as if (some of) the amendments had not been made, since to go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**				
*	in thi	acement sheets which have been furnished to the receiving Office in response to an invitation und is opinion as "originally filed." and are not annexed to this report since they do not contain 10.17).				
*:	* Any i	replacement sheet containing such amendments must be referred to under item I and annexed to	this report.			

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-3	YES
		Claims	NONE	NO
-	Inventive step (IS)	Claims	1-3	YES
		Claims	NONE	NO
	Industrial applicability (IA)	Claims	1-3	YES
		Claims	NONE	No

2. Citations and explanations (Rule 70.7)

Reference is made to the following document:

D1: US 5,840,781 A (Bayer Aktiengesellschaft)

The present invention according to claims 1-3 relates to a composition for preparing polyurethane foam having improved adhesive strength, and a rigid polyurethane foam made therefrom is provided. The composition is prepared using a cyclopentane system as a physical blowing agent and suitably adjusting the kind and content of polyols having low viscosity. The combination of polyols makes the most direct influence on the increase of the adhesive strength and the silicon-active agent improves a mixing efficiency in mixture having very low mutual solubility and stabilizes a cell by inhibiting irregular formation and growth of air foam.

Document D1 cited in the search report, which is regarded as the closest prior art, discolses a polyether polyols formulation and their use in production of hard polyurethane foams. The polyol formulation includes a sucrose-based polyether polyol having an OH number of from about 350 to about 500, and contains cyclopentane as a blowing agent.

Comparing the present invention with D1, the subject matter of claims 1-3 differs in the combination of three polyols having low viscosity. As a result, in the specific kind and content of polyols and other ingredients used, improved adhesive strength can be obtained.

Therefore, the subject matter of claims 1-3 is considered to be novel, to involve an inventive step and to be industrially applicable.

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VII. Certain defects in the international application	
The following defects in the form or contents of the international application have been no	ted:
In the detailed description and claims 1-2 of the present invention, the terminologies consistent throughout the international application. It was written by "polyiso 10.2 PCT is, thus, not fulfilled.	
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